

920.326.5193 Randolph 608.251.4318 Madison 800.321.5193 Toll Free

563.203.0182 Cresco, IA

920.326.5209 Fax



P.O. Box 150 Randolph, WI 53956

July 9, 2014

RECEIVED-DNR

Paul Kozol
Wisconsin Department of Natural Resources
Private Water Systems Section
Bureau of Drinking Water and Ground Water
101 S Webster Street
P. O. Box 7921
Madison, WI 53707-7921

DRINKING WATER & GW

JUL 1 0 2014

RE: High Capacity Well Application for Hilltop Dairy LLC, N309 CR Q, Markesan, Wisconsin, Town of Mackford, Green Lake County.

Dear Mr. Putra:

On behalf of Loren Greenfield of Hilltop Dairy LLC, Sam's Well Drilling, Inc. (SAMS), proposes to construct a high–capacity well for the purpose of farm use at the above mentioned addresses. The enclosed application is for this high–capacity well.

There are two other wells on the property at this time. I have included the Well Construction Report for the wells with this cover letter. The Hilltop Dairy LLC is nearly doubling in size at his time, thus requiring the installation of an additional well. If you have any questions regarding this project, please contact me at (920) 326-5193.

Sincerely,

SAM'S WELL DRILLING, INC.

Jeff Kramer, P.G. Hydrogeologist

Agent authorized to submit this application on behalf of the property owner, Loren Greenfield.

www.samswelldrilling.com

State of Wisconsin Department of Natural Resources Private Water Systems Section - DG/2 dnr.wi.gov

High Capacity, School or Wastewater Treatment Plant Well Approval Application

Form 3300-256 (R 7/05)

JUL 1 0 2014

Page 1 of 6

Notice: Prior department approval is required for the construction, reconstruction or operation of a high capacity well or system of high capacity wells, a school well or a wastewater treatment plant well in accordance with Section NR 812.09(4)(a), Wisconsin Administrative Code. Personally identifiable information collected on this form, including such data as your name, address and phone number, will be used for management of department programs and is unlikely to be used for other purposes. This information will be addressable under Wisconsin's Open Records Laws, ss. 19.32 - 19.39, Wis. Stats.

Use this form to request an approval for installation of a well or wells on a high capacity property, seek approval to make other changes to a high capacity property or to modify a well on a high capacity property, as required by NR 812.09(4)(a), Wisconsin Administrative Code. Refer to definitions of high capacity well, high capacity property and high capacity well system on page 5.

This form is not intended to be used when seeking approval for construction or modification of wells serving water systems regulated under ch. NR 811, Wis. Adm. Code. Any water system serving 7 or more homes, 10 or more mobile homes, 10 or more apartments, 10 or more condominiums, or 10 or more duplexes is regulated under ch. NR 811, Wis. Adm. Code. See NR 811.01, Wis. Adm. Code for applicability requirements.

more duplexes is regulated under on. Title	311, 1110	. Adm. Godo. Goo mi	011101, 111017	iaiiii Godo ioi	approcessing rade			
Applicant Information								
Application Prepared By (Name and Title)		Company						
JEST KRAMER HY	020	6E010615T	- SAN	n's WE	u Dell	LINE		
Street Address			City	10 201			ZIP Code	
P.O.BOX 150			RAN	RANDOLAH		WI	53956	
Telephone Number	Fax N	lumber		E-Mail Add	ess			
920-326-5193	9	20-326-52	09	JEFFI	Le Siam	SWE	LARILLING.	
Property Ownership Information								
Property owner, if different than applicant	t (Name	of Person and Title)	Company					
LOREN GREENFIELD	100	SNIER.	HILL	LTOP A	AIRY LL	C		
Street Address	10		City			State ZIP Code		
N309 COUNTY HIGH	WAY	IR	MA	RIKESK	W	WI	53946	
Telephone Number		lumber		E-Mail Addı	ress			
920-324-5365								
Well Operator Information								
Well operator if different than owner (Na	me of Pe	erson and Title)	Company					
LOREN GREENFIEL	//		HILL	TOP DE	HRY LLC	•		
Street Address			City			State	ZIP Code	
N309 COUNTY HIS	SHW	44 D	MA	EXESAN	J	WI	53946	
Telephone Number		lumber	X 7 0000 0000	E-Mail Add			3 7 7 8	
920-324-5365								
Property Information			Marian Establish					
Enter the High Capacity Well File Number	below if	the property is alread	v a high capaci	ty property. If	the property is no	ot designa	ited as a high capacity	
property at the time of application, enter "N	NONE."	NOTE: Find the file nu	imber in upper	right hand con	ner of the most re	ecent high	capacity well approva	
or use the compact disk of departmental w "Location" section. File number format is a	rell data is follows	that is issued to driller: s: (1 or 2 digits for coul	s ana pump ins nty) - (1 digit fo	tallers. On the r well classifica	ation) - (1 to 4 dig	jits for as	signed property no.).	
County		Town	,, , ,		High Capacity V			
GREEN LAKE		MACKFOR	0		24-3-	001	2	
Submittal Purpose								
Check all that apply:								
Install one or more new wells with	n a capa	acity greater than 70	gallons per i	minute.				
Install one or more new wells with					capacity prop	erty.		
Replace one or more wells with a						(5)		
Replace one or more wells with a	92				apacity proper	v.		
Reconstruct one or more wells w	0000	558 AN SEL SEL						
Reconstruct one or more wells w					ah capacity pro	perty.		
Increase pumping rate in one or i								
Request continued operation of h						required)	
Renew a previous approval that h			nange in own	cromp. (140	apphoanon 100	oquilou	•	
Well (or wells) will serve a school			lant Soo dof	initions on n	ago 5			
	i oi was	tewater treatment p	iaiit. See dei	initions on pa	age o.			
Other, explain								

		Foint 3500-250 (N 7105) Fage 2 01 0					
Site	Statı	is Information					
and t	he in	e the site status using the internet or the compact disk of departmental well data that is issued to drillers and pump installers formation supplied by the property owner. Internet address is dnr.wi.gov/org/water/dwg/dws.htm . Enter YES or NO for each owing questions.					
YES	NO X	Has the property boundary changed since the most recent high capacity well approval was issued? If the property is not yet a high capacity property, check NO.					
	X	Has there been a change in well ownership since the last approval was written? If YES, name of current owner: Date of purchase:					
	X	Has there been a change in well operator since the last approval was written? If YES, name of current operator: Date of change:					
	X	Will a proposed well be connected to a plumbing system that is supplied by other sources (other wells, municipal supply, etc.)? If YES, include a schematic drawing showing backflow protection.					
	X	Is a proposed well within 1,200 feet of a landfill? Determine if there are any landfills nearby, using the well information compact disk FIND feature. Enter the township, range and section of the well location. If the well is near a section line, also check the adjacent section or sections. If YES, list the landfill site ID Number: OR Landfill location: (Township/Range/Section)					
	×	Is a proposed well on a property that has a contaminated site? If YES, list the BRRTS (Bureau for Remediation and Redevelopment Tracking System) Number here and specify if the site is open or closed:					
	×	Is a proposed well on a property that has a groundwater use restriction recorded on the deed? If YES, list the BRRTS number, as assigned to the contaminated site by the DNR remediation and redevelopment program:					
	×	Is a proposed well on a property that is listed on the department's registry of closed remediation sites for a groundwater use restriction? See compact disk or internet at maps.dnr.state.wi.us/imf/dnrimf.jsp?site=brrts . If YES, list the BRRTS Number here:					
	×	Is a proposed well to be used for a public water supply system that serves 25 or more people? See definition of a "public water system" in the definitions section on page 5.					
	X	Is a proposed well to be installed within a special casing area? Refer to the list of special casing areas that is published by the department and/or contact the regional DNR office.					
	X	Has the number of wells or pumping capacity in an existing well increased since the most recent high capacity well approval was issued?					
	X	Has the number of wells decreased since the most recent high capacity well approval? If the property is not yet a high capacity property, check NO.					
	X	Is a non-pressurized storage vessel (i.e. reservoir) other than a pond proposed or in use?					
	X	Will the well discharge directly to a storage pond?					
	X	Is a pressurized tank with a capacity greater than 1,000 gallons proposed or in use?					
	\boxtimes	Is a proposed well within 1,200 feet of a quarry?					
	X	Is a proposed well located in a floodplain or floodway?					
	X	Are any existing well installations on the high capacity property out of compliance with Chapter NR 812, Wisconsin Administrative Code?					

Are you seeking a variance to construct a well that has a capacity of less than 70 gallons per minute to low capacity well construction standards?

Will the well be used as a source of bottled water?

☐ Is the property served by a community water system?

Existing Well Information				- }		
Enter the following information on	all existing wells on the p	roperty, if more than four	wells, submit a	additional s	heets:	
Well Name Assigned by Well Owner (North Well, etc.):	BARN	FARM				
Well Number Assigned by Owner (001, 002, etc.):	001	©2				
WI Unique Well Number or NA if no number:	Bx359	WM920				
Permanent DNR High Capacity Well Number or N/A if none:	69905	69906				
Public Water System ID Number, if Public (if not public, NONE):	24-3-001Z	24-3-0012				
Potable or Non-Potable Use:	POTABLE	POTABLE				
Type of Well (Irrigation, Industrial, Residential, etc.):	FARM	FARM				
Requested Average Water Usage per Day in Gallons:	36000	108,000				
Requested Maximum Water Usage per Day in Gallons:	72000	216,000				
Seasonal? (April to October, Year Around, etc.):	YEAR BOWD	YEAR ROOM				
Approved Pumping Capacity if Previously Approved (gpm):	50	150				
Current Pump Type & Capacity (gpm):	JUBMERSIBLE K	SUBMERSIBLE	150			
Proposed Pump Type & Capacity If Change Requested (gpm):	NA	NA				
Pump Discharge Type (Over Top of Casing Seal, Pitless, etc.):	PITLESS	PITLESS			·	
Discharge Location (Building Pressure Tank, Pond, etc.):	BUILDING PRESSURE TANK	BULONG PRESSURE TAN	K			
Height of Well Casing Above Ground in Inches:	15.0	18.0				
Potential Contaminant Sources and Distance:			1 1111			
Well Loc: Quarter Quarter Section	SE 1/4 of NE 1/4	SE 1/4 of NE 1/4	1/4 of	1/4	1/4 (of 1/4
or Government Lot Number						
Section or French Long Lot No.	35	35				
Township:	т 14 м	T 14 N	Т	N	Т	N
Range (Select E or W):	R /3 ⊠E □w		R [□E □w	R	□E □w
Latitude (Degrees and Minutes)	43 . 38.706		0	. 1	٥	· · ·
Longitude (Degrees and Minutes)	088.54421		0	. 1	0	1
GPS Map Datum (WGS84, WTM91, etc.)	6P5008	69500B				
Include as much of the following inform well construction record is attached, as	nation as practical for wells the	nat do not have well construc	tion records attac	ched to the	application, ho	wever if the
Date of Construction:	11/12/01	8/26/08				
Drilled by (Name of Drilling Firm):	5AM'S	54m'5				
Drilling Method(s) (Rotary, Percussion, Etc.)	ROTARY	ROTARY				
Well Depth in Feet:	<i>3</i> 02	322				
Upper Enlarged Drillhole Diameter in Inches and Depth in Feet:	8.8 inches, 63 feet	/o inches, 63 feet	inches,	feet	inches,	feet
Lower Drillhole Diameter in Inches	_	6.0 _{inches,} 322 feet	inches,	feet	Inches,	feet
Well Casing Diameter in Inches and Depth in Feet:	6.0 _{inches} ,63.0 feet		inches,	feet	inches,	feet
Well Casing Material and Wall Thickness:	STEEL / .280	STEEL / ZEO				
Annular Space Material Between Casing and Drillhole Wall:	NEAT CEMENT GROOT	NEAT CEMENT GAUT				
Is There a Well Screen (Y or N) If so, Screen Material?:	N	N				

Proposed Well Information			+ 1 M	112 1 1
Enter the following information on all	proposed wells on the property, if more than two wells or alternate con	nstruction, su	ıbmit additional	sheets:
Well Name Assigned by Well Owner (North Well, etc.):	FARM WELL			
Well Number Assigned by Owner (001, 002, etc.):	<i>0</i> 03			
Well Loc: Quarter Quarter Section or French Long Lot Number	SE 1/4 of NE 1/4 of Section 35 1/4	of	1/4 of Section	
or Government Lot Number				
Township & Range (Select E or W)		N, R		: □w
Latitude (Degrees and Minutes)	<u></u>	0		1
Longitude (Degrees and Minutes)	088 . 54414 .	۰		1
GPS Map Datum (WGS84, WTM91, etc.)	6P500B			
Type of Well (Irrigation, Industrial, Residential, etc.):	Type: AGRICULTURE Non-Potable Type:			table n-Potable
Drilling Method(s) (Rotary, Percussion, Etc.):	ROTARY			
	Depths that Are Expected During Drilling:		704	<u> </u>
Material and Depth Interval:	CLAY + GRAVE Grow 0' to 15 SANDSTO	ue fron	5850, 10 c	<u> </u>
Material and Depth Interval:	LIMESTONE from 15 to 141	fron	n 'to	
Material and Depth Interval:	SANDSTONE from 141 to 165 .	fron	n ¹to	
Material and Depth Interval:	UMESTONE from 165 to 270	fron	n ¹ to	
Material and Depth Interval:	LIMESTONE SANIGHT 270 to 285	fron	n 'to	1
Drillhole Diameter and Anticipated Dep				<u></u>
Diameter and Depth Interval:	120" from 0 to 350 t	fron	<u>' to</u>	1
Diameter and Depth Interval:	8.0" from 350 to 500 t	fron	n 'to	1
Diameter and Depth Interval:	from ' to '	fron	n ¹to	1
	and Wall Thickness at Anticipated Depth Intervals:			
Diameter and Wall Thickness at Depth Interval:	8.0 "diam/, 322" thick 0' to 350 "diam/	" thi	ick 0'te	o '
Diameter and Wall Thickness at Depth Interval:	" diam/ " thick ' to ' " diam/	" thi	ick 'te	,
Permanent Casing or Liner Material , I				
Casing Joints (Welded, T and C, etc.)	WEIDER			
Material and Weight at Depth Interval:	STEEL 28,555/foot 0' to 350	/ 18	os/foot 0'	to '
Material and Weight at Depth Interval:	/ Ibs/foot ' to '	<u>/</u> It	os/foot <u>'</u>	to '
Screen Material, Slot Size in Inches and Depth Interval or N/A if none:	NA , ", to .	1	#/ t	to '
Casing to Screen Joint (Welded, T and C, K Packer, etc.)	NA			
Annular Space Material Including Filte				
Material and Depth Interval:	NEAT CEMENT GROUT 0' to 350'		/ 0 1 t	<u> </u>
Material and Depth Interval:	/ ' to '		/ 16	0 .
Proposed Average Water Usage Per Day in Gallons:	Z16,000 (1506AM)			
Proposed Maximum Water Usage Per Day in Gallons:	432,000 (300 GPM)			
Seasonal? (April to October, Year Around, etc.):	YEAR ROOND			
Proposed Pump Type & Capacity (gpm):	SUBMERSIBLE 3006PM			
Discharge Type (Over Top of Casing Seal, Pitless Adapter or Unit):	PITLESS ADAPTER			
Discharge Location (Building Pressure Tank, Pond, etc.):	DUICUING PRESSURE TANK			
Distance and Direction to Nearest Public Utility Well & Well Name:	4 MILLING BESSZ			
Distance to Other Potential Contaminant Sources:	JUNICES NOVETH CITY OF MANCICESAN			
Distance to Other Potential Contaminant Sources:				
Leave Blank, for Department use only				

Required Attachments

- 1. Attach one of the maps described in A. or B., below. Plot the existing and proposed well locations on the map. For wells that have a Wisconsin Unique Well Number or a Permanent High Capacity Well Number, plot the well locations with one of those numbers.
 - A. Copy of a plat map with the property boundary clearly shown. If the property is contiguous with properties owned by the same owner in another township, include a copy of that township map too, showing the property boundaries. If the property owner listed on the plat map is different from the current owner, list the date or dates, that the current property owner purchased the property on the map.
 - B. Map of the property prepared by a licensed land surveyor and the property description as described by the surveyor.
- 2. Sketch map showing all of the following that are planned or exist within 300 feet of each proposed well: proposed well location; other wells; property boundary; wetlands; potential contaminant sources (septic tank and drainfield, petroleum storage tanks, sewer lines, etc.); buildings and north arrow. If no pertinent features to map within 300 feet of the proposed well, for example an irrigation well in the middle of a field, state that on the property map listed above and plot the well locations on that map.
- 3. Any well construction records available for existing wells on the property. Do not attach any well construction records for wells that are not on the property. If a Wisconsin Unique Well Number has not been assigned, write a well name or site well number on the record that correlates to the well name or number plotted on the maps.
- 4. For proposed wells with a capacity greater than 400 gallons per minute, include the performance curve or performance table that is provided by the pump manufacturer. If the pump will be a lineshaft turbine, provide a curve with the same rpm as the motor under full load and list the motor horsepower.
- 5. If more than one well is connected to a common plumbing system, also provide a schematic drawing of the system showing method of preventing backflow. This sketch must include the well discharge (pitless, over top of casing sanitary seal); the water line from the well; pressure tanks; sampling faucets; check valves; backflow preventers; air gaps; manually operated valves; water meters; pressure switches for pumps; and any other pertinent fittings. This schematic drawing must also identify which of these components are buried or above ground. If there is more than one check valve within the well casing, include in-well check valves on the schematic.
- 6. If reconstruction of an existing well is proposed, include a diagram of the current well construction and a diagram of the proposed construction.
- 7. If the application is for a high capacity well or wells, a \$500.00 check payable to the Department of Natural Resources, unless the application is only for continued operation after a change of ownership.

Certification and Applicant Signatures

If the application requests a variance for a well within 1,200 feet of a landfill, a well on a property with a groundwater use restriction, or any other variance to NR 812, Wis. Adm. Code, the property owner must sign the application. If the well operator will install a well on property that he or she does not own, the property owner must also sign the application. Otherwise, an agent of the owner may sign the application.

Unsigned and incomplete applications will not be approved.

By signing this form, the person signing this application certifies that to the best of his or her knowledge, all existing well installations on the property comply with ch. NR 812, Wis. Adm. Code. The person also certifies that to the best of his or her knowledge, all information in the application is accurate and correct.

Name - Print	Check Box				
JEFF KRAMER	Owner	M	Agent of the Owner		
Signature Wife Varion	Company SAM'S WEN DRILLING		Date 7/9/14		
Application submittal. Mail completed application and pa Section - DG/2, PO Box 7921, Madison WI 53707-7921.	yment with all required attachments to DNR,	Private	Water Systems		
Definitions from Wisconsin Administrative Codes					

"High capacity well system" means one or more wells, drillholes or mine shafts used or to be used to withdraw water for any purpose on one property, if the total pumping or flowing capacity of all wells, drillholes or mine shafts on one property is 70 or more gallons per minute based on the pump curve at the lowest system pressure setting, or based on the flow rate. [NR 812.07(53)]

"Public water system" means a system for the provision to the public of piped water for human consumptions if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days per year. A public water system is either a community water system or a non-community water system. Such system includes: (a) Any collection, treatment, storage, and distribution facilities under control of the operator of such system and used primarily in connection with such system, and (b) Any collection or pretreatment storage facilities not under such control which are used primarily in connection with such system. [NR 812.07(80)]

"School" means a public or private educational facility in which a program of educational instruction is provided to children in any grade or grades from kindergarten through the 12th grade. Water systems serving athletic fields, school forests, environmental centers, home-based schools, day-care centers and Sunday schools are not school water systems. [NR 812.07(94)]

"Wastewater treatment plant" means any facility provided for the treatment of sanitary or industrial wastewater or both. The following types of facilities are excluded: (a) Facilities defined as private sewage systems in s. 145.01(12), Stats. (b) Pretreatment facilities from which effluent is directed to a public sewer system for treatment. (c) Industrial wastewater treatment facilities which consist solely of a land disposal system. [NR 114.03(14)]

[&]quot;High capacity well" means a well constructed on a high capacity property. [NR 812.07(51)]

[&]quot;High capacity property" means one property on which a high capacity well system exists or is to be constructed. [NR 812.07(52)]

MACKFORD

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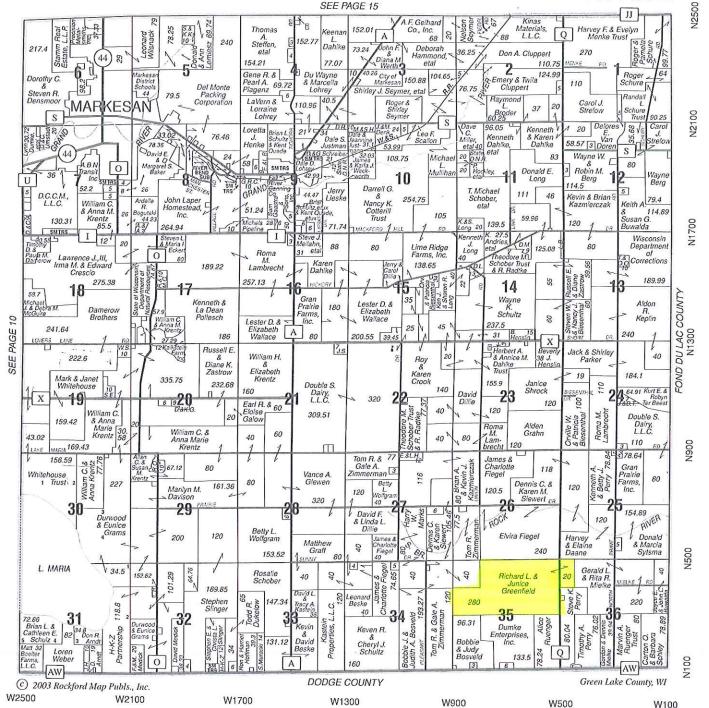
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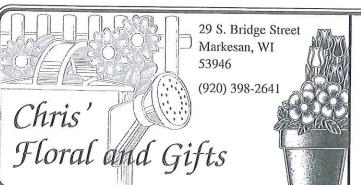
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SLATE LAW OFFICES

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Personal & Business Taxes

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